

SAKAI®

SV544

Series

Soil Compactor



SV544D

Vibratory Single Drum Roller

The innovatively designed SV544 is applicable to medium to large soil compaction jobs.

Manual Traction Control

- High traction capability ensures compaction in both forward and reverse — even on jobs with soft ground, slopes or rough terrains.
- Manual traction control allows forward slope and reverse slope operation.

Manual Vehicle Speed Control

- Selective travel mode (2.5 - 6.2 mph)

Vibration System

- There are 2 range of vibration, high amplitude and low amplitude.
- Reaches target density in fewer roller passes.
- Achieves uniform compaction throughout lift thickness.

Long Lasting Drum Isolator System

- Sakai's unique drum mounting system extends the life of the drum isolators.
- Patented drum vibration isolation system and floating deck keep the operator free from vibration.
- Durable, high quality components such as hydraulics, drum and center-pin hitch assure longer life and lower maintenance costs.

SV544T



SV544TF



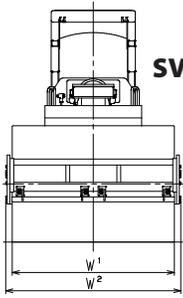
SV544TB



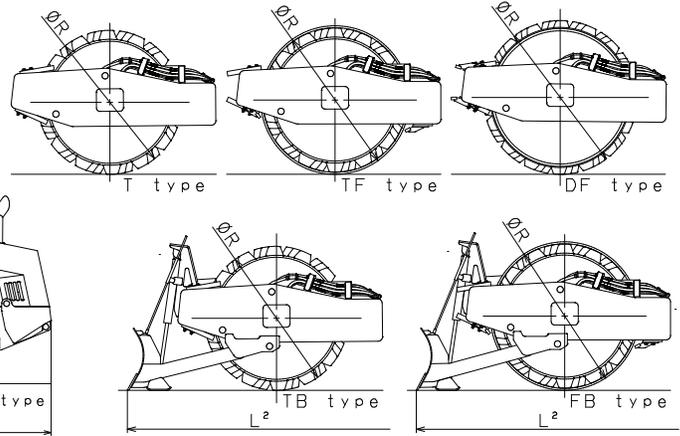
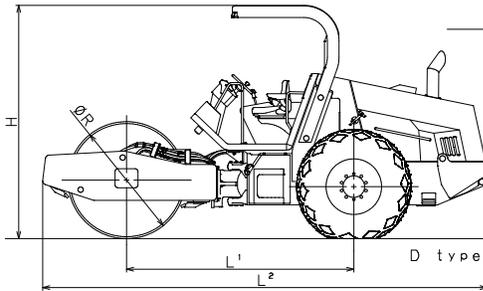
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Options shown. Contact your dealer for details.

SV544 Series



SV544D



TYPE			Vibratory Single Drum Roller						
MODEL			SV544D	SV544T	SV544TB	SV544FB	SV544TF	SV544DF	
CHASSIS MODEL			3SV56						
WEIGHTS	Max. operating weight with ROPS	kg(lbs)	11,090 (24,450)	11,470 (25,285)	12,230 (26,960)	14,500 (31,965)	13,740 (30,290)	12,770 (28,150)	
	Operating weight with ROPS	kg(lbs)	11,000 (24,250)	11,380 (25,090)	12,140 (26,765)	14,410 (31,770)	13,650 (30,095)	12,680 (27,955)	
	Load on front axle - operating weight with ROPS	kg(lbs)	5,790 (12,765)	6,175 (13,615)	7,270 (16,025)	9,555 (21,065)	8,460 (18,650)	7,545 (16,635)	
	Load on rear axle - operating weight with ROPS	kg(lbs)	5,210 (11,485)	5,205 (11,475)	4,870 (10,735)	4,855 (10,705)	5,190 (11,440)	5,135 (11,320)	
PERFORMANCE	Centrifugal force (L / H)	kN(lbs)[kgf]	146 / 255 (32,820 / 57,325) [14,885 / 26,000]						
	Frequency (L / H)	Hz(vpm)	33.3 / 28.8 (2,000 / 1,730)						
	Amplitude (L / H)	mm(in)	0.85 / 2.01 (0.033 / 0.079)	0.80 / 1.88 (0.031 / 0.074)		0.52 / 1.23 (0.020 / 0.048)		0.62 / 1.45 (0.024 / 0.057)	
	Dynamic linear pressure for front drum - operating weight with ROPS (L / H)	N/cm (lb/in)	952 / 1,464 (545 / 835)	-	-	1,125 / 1,637 (640 / 935)	1,075 / 1,587 (615 / 905)	-	
	Number of speed shifts		3						
	Speed range (1 / 2 / 3)	km/h(mph)	0 - 4 / 0 - 6 / 0 - 10 (0 - 2.5 / 0 - 3.7 / 0 - 6.2)						
	Gradeability	%(°)	63 (32)						
DIMENSIONS	Turning radius compacted surface (inside / outside)	m(in)	3.4 / 5.5 (134 / 217)						
	Overall length L ²	mm(in)	5,805 (229)		6,365 (251)		6,360 (250)		5,805 (229)
	Overall width W ²	mm(in)	2,300 (91)		2,500 (98)		2,300 (91)		
	Overall height (without ROPS)	mm(in)	2,455 (97)		2,525 (99)		2,515 (99)		2,505 (99)
	Overall height (with ROPS) H	mm(in)	3,050 (120)		3,105 (122)		3,110 (122)		3,125 (123)
	Wheelbase L ¹	mm(in)	2,970 (117)						
	Width with leveling blade	mm(in)	-	-	2,500 (98)		-	-	
	Compaction width W ¹	mm(in)	2,130 (84)						
	Drum width W ¹ / Drum diameter R	mm(in)	2,130 / 1,530 (84 / 60)		2,130 / 1,600 (84 / 63)		2,130 / 1,650 (84 / 65)		2,130 / 1,708 (84 / 67)
	Pad height	mm(in)	-		100 (3.9)		81 (3.2)		
	Number of pads	pcs.	-		140		160		
	Shell thickness	mm(in)	25 (1.0)		22 (0.9)		25 (1.0)		
	Tire size × Number of tires		23.1-26-8PR(OR)×2		23.1-26-10PR(OR) × 2				
	Inflation (each wheels)	kPa(psi)	137 (20.0)						
	Ground clearance	mm(in)	405 (15.9)		450 (17.7)		465 (18.3)		485 (19.1)
Curb clearance	mm(in)	500 (19.7)		530 (20.9)		560 (22)		595 (23.4)	
Side clearance	mm(in)	85 (3.3)							
ENGINE	Make		CUMMINS						
	Model		QSF3.8						
	EPA emission standard		EPA-Tier4						
	Type		Diesel, water cooled, 4 cycle, 4 cylinder with turbo charger						
	Displacement	L(cu.in)	3.800 (229.0)						
	Rated output	kW(HP)/min ⁻¹	97.0 (130) / 2,200						
	Electric system battery	V(V/CCA×Qty)	24V (12V / 651 × 2)						
DRIVE SYSTEM	Electric system alternator	V/A	24V / 90A						
	Power transmission type		Hydrostatic						
VIBRATION SYSTEM	Drive wheel		All wheel (drum & tires)						
	Power transmission type		Hydraulic						
BRAKE SYSTEM	Number of amplitude		2						
	Vibrator type		Single eccentric shaft						
	Service brake		Dynamic braking through hydrostatic drive system / FNR lever						
STEERING SYSTEM	Secondary brake (Emergency brake)		Hydrostatic + spring applied hydraulically released type (SAHR) / Brake pedal						
	Parking brake		SAHR / Panel button						
FLUID	Power transmission type		Hydraulic						
	Articulation / Oscillation angle	±(°)	37 / 9						
CAPACITY	Fuel tank	L(gal)	215 (56.8)						
	Hydraulic oil tank	L(gal)	53 (14)						

- Specified figures have a tolerance of ±5%.
- All specifications may be changed without notice.
- Specified figures are in SI Units, followed by their equivalent in English units of measurement in parentheses.
- Max. operating weight : Fuel=100%, Water=100%, Operator=75kg
- Operating weight : Fuel=50%, Water=50%, Operator=75kg
- The photos may contain optional equipment and/or attachment.
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- Operating weight : Fuel=50%, water=50%, operator=75kg
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- Optional equipment
- ROPS-Cab w/Air conditioner and Seatbelt